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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/542,789	07/20/2005	Israel Rubinstein	RUBINSTEIN9A	2392
	7590 05/19/200 D NEIMARK, P.L.L.C	EXAMINER		
624 NINTH ST		HORNING, JOEL G		
SUITE 300 WASHINGTON, DC 20001-5303		ART UNIT	PAPER NUMBER	
	,		4172	
			MAIL DATE	DELIVERY MODE
			05/19/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)				
Office Action Summers		10/542,789	RUBINSTEIN ET AL.				
	Office Action Summary	Examiner	Art Unit				
		JOEL HORNING	4172				
 Period for l	The MAILING DATE of this communication ap Reply	opears on the cover sheet with the	correspondence address				
WHICH - Extensic after SIX - If NO pe - Failure t Any repl	RTENED STATUTORY PERIOD FOR REPIEVER IS LONGER, FROM THE MAILING Interest of time may be available under the provisions of 37 CFR 1 (6) MONTHS from the mailing date of this communication. Which is specified above, the maximum statutory period or reply within the set or extended period for reply will, by statury received by the Office later than three months after the mailing patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATIO .136(a). In no event, however, may a reply be tid d will apply and will expire SIX (6) MONTHS fron te, cause the application to become ABANDONI	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).				
Status							
1)⊠ R	esponsive to communication(s) filed on <u>10 s</u>	September 2007					
· <u> </u>		is action is non-final.					
'	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
•	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
	·	Ex parto Quayro, 1000 0.5. 11, 1	00 0.0.210.				
Disposition	n of Claims						
4)⊠ C	Claim(s) <u>1-33</u> is/are pending in the application.						
4a	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)□ C	5) Claim(s) is/are allowed.						
6)□ C	6) ☐ Claim(s) is/are rejected.						
	laim(s) is/are objected to.						
·	laim(s) <u>1-33</u> are subject to restriction and/or	election requirement.					
Application	n Papers						
· · ·	•	nor.					
9) The specification is objected to by the Examiner.							
•	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
11)[_] 11	le oath of declaration is objected to by the E	Examiner. Note the attached Office	e Action of Ionn PTO-152.				
Priority un	der 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
2) Notice of 3) Informa) of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) tion Disclosure Statement(s) (PTO/SB/08) o(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal 6) Other:	pate				

DETAILED ACTION

Election/Restrictions

1. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

- a. Group I, claim(s) 1-23, 25-27, 32 and 33, drawn to a method for preparing a nanoparticle based structure.
- b. Group II, claim(s) 24, drawn to an electrically conductive substantially hollow material composed of nanoparticle arrays.
- c. Group III, claim(s) 28 and 30, drawn to a filter and a method of using said filter.
- d. Group IV, claim(s) 29, drawn to an optical sensor.
- e. Group V, claim(s) 31, drawn to a catalyst or electrocatalyst comprised of nanoparticles

assembled into nanotubes.

2. The inventions listed as Groups I-V do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: Unity exists only when there is a technical relationship among the claimed inventions involving one or more of the same or corresponding claimed technical features. The express "special"

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technical features" is defined as meaning those technical features that define a contribution which each of the inventions, considered as a whole, makes over the prior art." (Rule 13.2). The question of unity of invention has been reconsidered retroactively by the examiner in view of the search performed; a review of Braunstein et al. "Strategies for the Anchoring of Metal Complexes, Clusters, and Colloids Inside Nanoporous Alumnina Membranes" (supplied by applicant), makes clear that the claimed species is not novel over the prior art (the instantly claimed compounds). Furthermore, these references appear to demonstrate that the technical feature (i.e. a material which is composed of nanoparticles attached to the inside of small tubes or channels running through a membrane) does not define a contribution which each of the inventions, considered as a whole, makes over the prior art. Thus, lack of unity becomes apparent "a posteriori" after taking the prior art into consideration.

Accordingly, the prior art of the record supports restriction of the claimed subject matter in to the groups as mentioned immediately above.

3. A telephone call was made to Sheridan Neimark on 04-28-2008 to request an oral election to the above restriction requirement, but did not result in an election being made.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

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The election of an invention or species may be made with or without traverse. To preserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

- 4. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).
- 5. The examiner has required restriction between product and process claims.

 Where applicant elects claims directed to the product, and the product claims are subsequently found allowable, withdrawn process claims that depend from or otherwise require all the limitations of the allowable product claim will be considered for rejoinder.

 All claims directed to a nonelected process invention must require all the limitations of an allowable product claim for that process invention to be rejoined.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103 and 112. Until all claims to the elected product are found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not

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§ 821.04(b). Additionally, in order to retain the right to rejoinder in accordance with the above policy, applicant is advised that the process claims should be amended during prosecution to require the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder. Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

Conclusion

6. No claim is allowed. All the pending claims are subject to restriction/election requirement. The reference is not supplied, having been provided to the office by applicant.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JOEL HORNING whose telephone number is (571) 270-5357. The examiner can normally be reached on 7:30am-5:00pm EST Monday thru Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vickie Kim can be reached on (571) 272-0579. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JH

/Vickie Kim/ Supervisory Patent Examiner, Art Unit 4172